

ABSTRACT OF THE DISCLOSURE

Microfluidic devices that form layered structures provide a liquid handling interface with external devices as well as reduce consumption of sample and buffer in analytical operations. These microfluidic devices are suitable for operations designed for lab-on-a-chip functions. The microfluidic devices accomplish sample injection in a single channel without intersecting channels on the same plane. These devices may be formed through injection-molding fabrication methods.

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